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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,980	04/07/2005	Andrea Amalfitano	180/151 PCT/US	7130
JENKINS, WILSON, TAYLOR & HUNT, P. A. 3100 TOWER BLVD., Suite 1200			EXAMINER	
			SAJJADI, FEREYDOUN GHOTB	
DURHAM, NC 27707			ART UNIT	PAPER NUMBER
			1633	
			MAIL DATE	DELIVERY MODE
			10/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<u>, - , , , , , , , , , , , , , , , , , ,</u>						
	Application No.	Applicant(s)				
	10/511,980	AMALFITANO ET AL.				
Office Action Summary	Examiner	Art Unit				
· · · · · · · · · · · · · · · · · · ·	Fereydoun G. Sajjadi	1633				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period varieties or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl vill apply and will expire SIX (6) MONTH , cause the application to become ABAN	ATION. y be timely filed S from the mailing date of this communication. JDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16 Ju	ıly 2007.					
2a) This action is FINAL . 2b) This	This action is FINAL . 2b) This action is non-final.					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 1	11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-142</u> is/are pending in the application.						
4a) Of the above claim(s) 37-142 is/are withdra	4a) Of the above claim(s) 37-142 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) <u>1-36</u> are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by	the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex	caminer. Note the attached (Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prio	rity documents have been re	eceived in this National Stage				
application from the International Bureau		·				
* See the attached detailed Office action for a list	of the certified copies not re	eceived.				
·						
Attachment(s)		(270, 110)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

This action is in response to papers filed July 16, 2007. Applicant's response to restriction requirement of January 17, 2007 has been entered. No claims were cancelled, amended or newly added. Currently, claims 1-142 are pending in the application, and claims 49, 63 and 67 stand withdrawn, pursuant to the office action dated January 17, 2007.

Response to Election/Restrictions

Applicants' election of Group I (claims 1-36), drawn to a hybrid adenovirus deficient in at least one E2B gene comprising a recombinant AAV genome, is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Accordingly, claims 37-48, 50-62, 64-66 and 68-142 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to non-elected subject matter, there being no allowable generic or linking claim.

Applicant timely responded to the restriction (election) requirement in the Paper filed July 2, 2007. As the election was made without traverse, the Group restriction requirement is deemed proper, maintained and made FINAL.

New Species Election/Restrictions

Upon further consideration, and further in view of the numerous species present in the instant claims, it has become apparent that claims 1-36 are further subject to species restriction as set forth below, as the combined search and examination of the species of the invention constitutes an undue burden.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

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A specifically named single species of AAV inverted terminal repeats, from the species of AAV-1 though AAV-6, as recited in claim 3.

A specifically named single species of promoter or inducible promoter operably linked to AAV Rep, from the species of tet responsive, element, ecdysone, response element, heat shock promoter, MMLV LTR, T7 promoter, metallothionein response element, AAV p5 promoter, liver-specific promoter, muscle specific promoter, and brain-specific promoter, and as recited in claims 6-8.

A specifically named single species of functional genomic region or a single specific combination of functional genomic regions, from the species of E1a, E2a, E4 or E6 and VA regions, as recited in claim 11.

A specifically named single species of deleted region or a single specific combination of deleted regions (additional to deletions recited in base claim 1), from the species of IVa2, 100k, L3, L4, L5, intermediate gene IX, preterminal and polymerase regions, as recited in claims 16-20.

A specifically named single species of promoter or inducible promoter operably linked to a heterologous nucleic acid, from the species of liver-specific, muscle specific, brain-specific, glucose-responsive, CMV, albumin, EF1-α, pγk, MFG and RSV promoters, as recited in claims 21-25.

A specifically named single species of heterologous polypeptide or antisense nucleic acid, from the species of therapeutic, immunogenic reporter polypeptides, or a single specific polypeptide associated with a lysosomal or glycogen storage disease (from those listed in claims 29 and 31), as recited in claims 26-34.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the

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limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner: Claim 1, and claims dependent therefrom correspond to all the species listed above.

The following claim(s) are generic: 1-36.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: As the technical features (AAV serotype terminal repeats, heterologous promoters sequences, heterologous coding sequences, antisense sequence, and different AAV functional or deleted genomic regions) linking the members do not constitute a special technical feature as defined by PCT Rule 13.2, particularly since each of the species does not share a substantially common structural feature, the requirement for unity of invention is not fulfilled.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

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application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fereydoun G. Sajjadi whose telephone number is (571) 272-3311. The examiner can normally be reached on 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fereydoun G. Sajjadi, Ph.D. Examiner, A.U. 1633

/Anne Marie S. Wehbé/ Primary Examiner, A.U. 1633